June 25, 1940. C. R. WISE 2,205,967

RIFLE MAGAZINE

Filed March 1, 1939

Fig. 1.

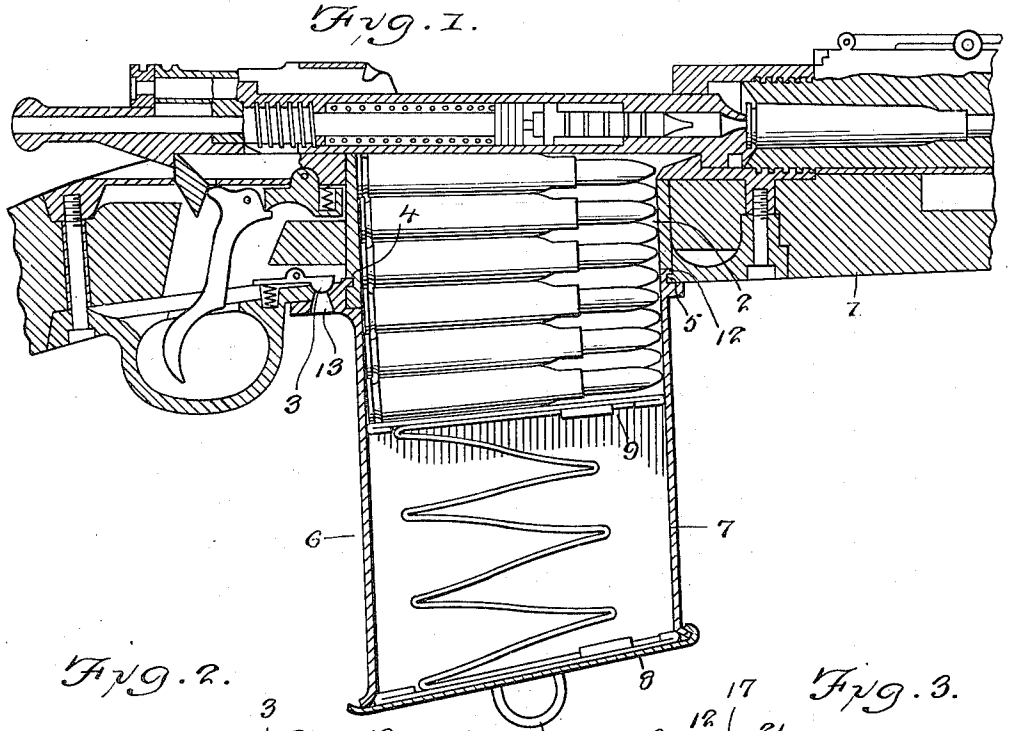


Fig. 2.

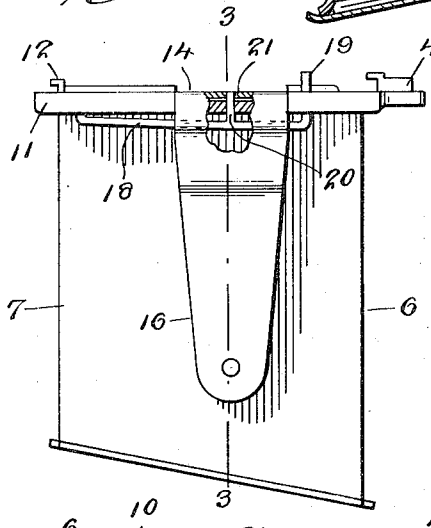


Fig. 3.

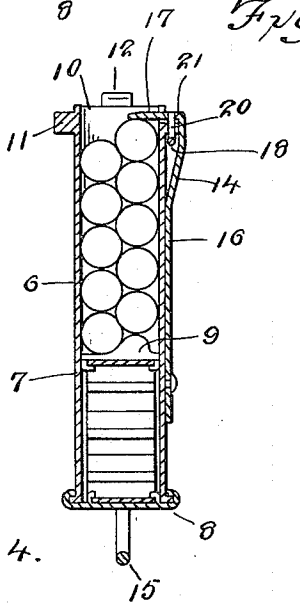
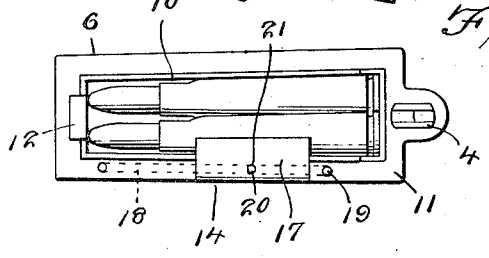


Fig. 4.



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2,205,967

UNITED STATES PATENT OFFICE

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RIFLE MAGAZINE

Charles Rex Wise, Charleston, W. Va.

Application March 1, 1939, Serial No. 259,264

6 Claims. (Cl. 42—49)

This invention relates to rifle magazines and more particularly to an auxiliary ammunition magazine, and has for the primary object the provision of a device of this character which may be readily adapted to a rifle now in use for materially increasing the ammunition storage capacity of the rifle and which may be easily and quickly applied and removed from the rifle and when applied will feed the ammunition through the rifle magazine as the rifle is fired, thereby obviating any changes or alterations in the construction of the rifle and when removed from the rifle may be easily reloaded with ammunition and conveniently carried until such time it is again applied to the rifle.

Another object of this invention is the provision of means for retaining the ammunition in the auxiliary magazine and which will automatically release the ammunition for movement into the rifle magazine on the application of the auxiliary magazine to the rifle.

With these and other objects in view, this invention consists in certain novel features of construction, combination and arrangement of parts to be hereinafter more fully described and claimed.

For a complete understanding of my invention, reference is to be had to the following description and accompanying drawing, in which

Figure 1 is a fragmentary vertical sectional view illustrating a rifle with an auxiliary magazine applied thereto and constructed in accordance with my invention.

Figure 2 is a side elevation illustrating the auxiliary magazine.

Figure 3 is a sectional view taken on the line 3—3 of Figure 2.

Figure 4 is a top plan view illustrating the auxiliary magazine.

Referring in detail to the drawing, the numeral 1 indicates a fragmentary portion of a rifle now in use and which has built therein a magazine 2 for the accommodation of a limited number of cartridges. The magazine normally closed by a removable plate (not shown). The removable plate is held in position upon the rifle by a spring catch 3 engaging with a keeper of the construction disclosed at 4 of my invention. One end of the plate is shouldered to engage with a flange 5 of the rifle cooperating with the catch 3 and keeper for retaining the plate in position. A rifle of the character described may only be fired a few times under one loading due to the limited number of cartridges that may be accommodated in the magazine 2. In order that the rifle may be fired a great number of times under one loading, I adapt to the rifle without altering the construction thereof my invention which consists of an auxiliary magazine 6. The auxiliary magazine 6 consists of a casing 7 open at each end and has one end normally closed by a removable cover 8 forming a seat for a spring pressed follower 9 while the other end of the casing provides a discharge throat 10. The end of the casing 7 having the discharge throat 10 is provided with a flange 11 adapted to abut the forearm of the rifle with the discharge throat 10 projecting a limited distance into the magazine 2 of the rifle. The flange 11 carries the keeper 4 and also a shoulder 12 adapted to engage the flange 5 of the magazine 2 while the keeper 4 is engaged by the spring pressed catch 3. The keeper 4 has a tapered opening 13 therethrough, as shown in Figure 1, for the purpose of receiving a bullet of a cartridge to permit the bullet to be manually pressed against the catch to disengage the latter from the keeper and thereby free the auxiliary magazine from the rifle magazine. After the release of the catch 3 from the keeper 4, the casing 7 may be moved endwise relative to the rifle for a limited distance sufficient to disengage the shoulder 12 from the flange 5 and thereby bring about a complete detachment of the auxiliary magazine from the rifle. The cartridges are placed in the casing 7 in rows with the cartridges of each row arranged in superimposed relation and also with the cartridges of one row disposed in a plane slightly above the cartridges of the other row, as clearly shown in Figure 3. The placing of the cartridges in the casing forces the follower 9 in the direction of the removable cover 8 depressing the spring of the follower. After the filling of the casing 7 with cartridges, the uppermost cartridge or the cartridge adjacent the discharge throat 10 is engaged by a spring catch 14 to prevent the follower from pushing the cartridges out of the casing when the latter is detached from the gun. The auxiliary magazine may be conveniently carried within the pocket of a garment or if desired, may be suspended to an ammunition belt by employing the loop element 15 on the cover 8 to connect with a hook or similar element upon the cartridge belt. The spring catch 14 is in the form of a resilient plate 16 having an angularly disposed portion 17. The resilient plate 16 is suitably secured to one of the walls of the casing 7 with the end portion 17 partially traversing the discharge throat 7 of said casing. A spring member 18 is mounted to the flange 11 of the casing 7

and extends between one wall of the casing and the resilient plate 16 and has an angularly disposed end 19 operating through an opening in the flange. A lug 20 is carried by the spring member 18 and normally extends into an opening 21 formed in the end portion 17 of the catch 14 to secure the plate 16 of said catch 14 against flexation and for retaining the end portion 17 in a position to engage with the uppermost cartridge in said casing. The application of the auxiliary magazine to the rifle will bring about a flexing of the spring member 18 by the end 19 engaging with the forearm of the rifle. This flexing of the spring member 18 moves the projection 20 out of the opening 21, freeing the plate 16 for flexation. The follower 9 has sufficient strength to cause a flexation of the plate 16 and at the same time to feed the cartridges into the magazine 2 of the rifle.

Thus it will be seen that my invention provides to a rifle now in use an additional supply of ammunition over that which would be accommodated in the magazine of the rifle and that my invention can be easily and quickly applied and removed from the rifle and when removed may be easily filled with ammunition, the ammunition being retained in the auxiliary magazine until such time that said auxiliary magazine is applied to the rifle, consequently permitting the auxiliary magazine to be conveniently carried on a person or that any number of auxiliary magazines may be carried loaded with ammunition by the person and readily adapted to the rifle as needed.

The auxiliary magazine while still applied to the rifle may be reloaded by passing cartridges into the rifle or the magazine thereof as usual and forcing said cartridges into the auxiliary magazine.

It is to be understood that the form of my invention, herewith shown and described, is to be taken as a preferred example of the same, and that various changes in the size, shape and arrangement of parts may be resorted to without departing from the spirit of my invention or the scope of the appended claims.

Having described the invention, I claim:

1. In an ammunition magazine, a casing having a discharge throat to extend into the magazine chamber of a gun for a limited distance, means for detachably connecting the casing to the gun, a spring actuated follower in said casing for expelling ammunition therefrom, an inherently resilient catch for retaining the ammunition in the casing during the non-application of the casing to the gun, an inherently resilient spring member secured to the casing and having an angularly disposed end normally projecting beyond the discharge throat of the casing to engage with the gun on the application of the casing to said gun for flexing said spring member, and a lug carried by the spring member and normally engaging the catch to secure said catch in position for preventing discharge of ammunition from the casing and adapted to free the catch for the discharge of ammunition by flexing the said spring member on the application of the casing to the gun.

2. In an ammunition magazine the combination of a casing having a discharge throat, an inherently resilient member secured to the said casing, and an inherently resilient catch having a portion adapted to engage the resilient member to normally hold the same in a position to retain cartridges in the said casing and a portion adapted to engage a portion of a gun and to flex the catch in a manner to automatically release the resilient member.

3. In an ammunition magazine the combination of a casing having a discharge throat, a peripheral rim encircling the said discharge throat, an inherently resilient member secured to the said casing, and normally disposed in unobstructing relation to the discharge throat but having a portion movable over the said discharge throat to obturate the same, and an inherently resilient catch carried by the said peripheral rim and having a portion engaging the said resilient member to hold the same in obturating relation with the discharge throat.

4. In an ammunition magazine the combination of a casing having a discharge throat, a peripheral rim encircling the said discharge throat, an inherently resilient member secured to the said casing and normally disposed in unobstructing relation to the discharge throat but having a portion movable over the said discharge throat to obturate the same, and an inherently resilient catch carried by the said peripheral rim and having a portion extending thereabove and a portion engaging the said resilient member to normally hold the same in obturating relation with the discharge throat, said first mentioned portion of the catch adapted to flex the catch and to engage with the breech of a gun to automatically release the said resilient member when the said magazine is inserted within said breech.

5. In an ammunition magazine a casing having a discharge throat, a peripheral flange encircling the said discharge throat, a leaf spring having one end secured to the casing and with the free end positioned to obturate the discharge throat of the said casing, and a spring catch fastened to the underside of the said flange and having a portion extending thereabove and a portion engaging the said leaf spring to normally hold the same in obturating relation with the said discharge throat.

6. In an ammunition magazine a casing having a discharge throat, a peripheral flange encircling the said discharge throat, a leaf spring having one end secured to the casing and with the free end positioned to obturate the discharge throat of the said casing, and a spring catch fastened to the underside of the said flange and having a portion extending thereabove and a portion engaging the said leaf spring to normally hold the same in obturating relation with the said discharge throat, said first mentioned portion of the catch adapted to engage with the breech of a gun to automatically release the said leaf spring when the said magazine is inserted within said breech.

CHARLES REX WISE.